

Michele Viviani

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,529
citations

331670

21
h-index

345221

36
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78
all docs

78
docs citations

78
times ranked

811
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental measurements and numerical simulations of underwater radiated noise from a model-scale propeller in uniform inflow. <i>Ocean Engineering</i> , 2022, 255, 111409.	4.3	4
2	Multi-Platforms and Multi-Sensors Integrated Survey for the Submerged and Emerged Areas. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 753.	2.6	4
3	Development and assessment of CFD methods to calculate propeller and hull impact on the rudder inflow for a twin-screw ship. <i>Applied Ocean Research</i> , 2022, 125, 103227.	4.1	9
4	Z-Drive Escort Tug manoeuvrability model and simulation, Part II: A full-scale validation. <i>Ocean Engineering</i> , 2022, 259, 111881.	4.3	7
5	The use of computational fluid dynamic technique in ship control design. <i>Ships and Offshore Structures</i> , 2021, 16, 31-45.	1.9	12
6	Assessment of the Manoeuvrability Characteristics of a Twin Shaft Naval Vessel Using an Open-Source CFD Code. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 665.	2.6	16
7	Experimental investigation of single blade loads by captive model tests in pure oblique flow. Part II: Propeller in-plane loads and preliminary comparison of single blade loads during transient phases. <i>Ocean Engineering</i> , 2021, 234, 109149.	4.3	6
8	A Kinetic Simulator For Distributed Mechanically Linked Marine Vehicles. <i>IFAC-PapersOnLine</i> , 2021, 54, 266-272.	0.9	0
9	Interactive design and variation of hull shapes: pros and cons of different CAD approaches. <i>International Journal on Interactive Design and Manufacturing</i> , 2020, 14, 103-114.	2.2	10
10	Experimental investigation of single blade loads by captive model tests in pure oblique flow. <i>Ocean Engineering</i> , 2020, 196, 106789.	4.3	7
11	Deep Learning for Cavitating Marine Propeller Noise Prediction at Design Stage. , 2020, , .		1
12	Noise measurements of a cavitating propeller in different facilities: Results of the round robin test programme. <i>Ocean Engineering</i> , 2020, 213, 107599.	4.3	26
13	Numerical Analysis of the Rudderâ€“Propeller Interaction. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 990.	2.6	17
14	SWAMP, an Autonomous Surface Vehicle expressly designed for extremely shallow waters. <i>Ocean Engineering</i> , 2020, 216, 108205.	4.3	19
15	Monitoring of Sea-Ice-Atmosphere Interface in the Proximity of Arctic Tidewater Glaciers: The Contribution of Marine Robotics. <i>Remote Sensing</i> , 2020, 12, 1707.	4.0	13
16	Numerical analysis of escort tug manoeuvrability characteristics. <i>Applied Ocean Research</i> , 2020, 97, 102075.	4.1	16
17	Numerical and Experimental Comparison of Ducted and Non-Ducted Propellers. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 257.	2.6	20
18	Numerical analysis of escort tug manoeuvrability characteristics â€“ Part II: The skeg effect. <i>Applied Ocean Research</i> , 2020, 100, 102199.	4.1	10

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19	Predicting the cavitating marine propeller noise at design stage: A deep learning based approach. Ocean Engineering, 2020, 209, 107481.	4.3	24
20	An All-Round Design-to-Simulation Approach of a New Z-Drive Escort Tug Class. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	1.2	8
21	A preliminary experiment combining marine robotics and citizenship engagement using imitation learning. IFAC-PapersOnLine, 2020, 53, 14576-14581.	0.9	1
22	Design and Construction of a Modular Pump-Jet Thruster for Autonomous Surface Vehicle Operations in Extremely Shallow Water. Journal of Marine Science and Engineering, 2019, 7, 222.	2.6	21
23	An efficient and robust approach to predict ship self-propulsion coefficients. Applied Ocean Research, 2019, 92, 101862.	4.1	22
24	Z-Drive Escort Tug manoeuvrability model and simulation. Ocean Engineering, 2019, 191, 106461.	4.3	21
25	Aspects of the measurement of the acoustic transfer function in a cavitation tunnel. Applied Ocean Research, 2019, 87, 264-278.	4.1	13
26	Propeller modeling approaches for off“design operative conditions. Ocean Engineering, 2019, 178, 283-305.	4.3	28
27	Cavitation tunnel tests for “The Princess Royal” model propeller behind a 2-dimensional wake screen. Ocean Engineering, 2019, 172, 829-843.	4.3	15
28	Model scale cavitation noise spectra prediction: Combining physical knowledge with data science. Ocean Engineering, 2019, 178, 185-203.	4.3	8
29	A new concept of highly modular ASV for extremely shallow water applications. IFAC-PapersOnLine, 2019, 52, 181-186.	0.9	7
30	Hybrid Model for Cavitation Noise Spectra Prediction. , 2019, , .		1
31	CFD-based analyses for a slow speed manoeuvrability model. Journal of Marine Science and Technology, 2019, 24, 871-883.	2.9	15
32	Additive Manufacturing Application to a Ship Propeller Model for Experimental Activity in the Cavitation Tunnel. Journal of Ship Production and Design, 2019, 35, 364-373.	0.4	5
33	A study on the influence of hull wake on model scale cavitation and noise tests for a fast twin screw vessel with inclined shaft. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 307-330.	0.5	0
34	Design and Validation of Dynamic Positioning for Marine Systems: A Case Study. IEEE Journal of Oceanic Engineering, 2018, 43, 677-688.	3.8	25
35	Numerical Evaluation of Rudder Performance Behind a Propeller in Bollard Pull Condition. Journal of Marine Science and Application, 2018, 17, 153-164.	1.7	24
36	Escort Tug Hydrodynamic Forces Estimation in a Design Framework: From Model Test to Manoeuvrability Simulation. , 2018, , .		4

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37	Ship self-propulsion performance prediction by using OpenFOAM and different simplified propeller models. , 2018, , 195-203.		4
38	All Around Approach for the Design of a New Escort Tug Family. , 2018, , .		2
39	Efficient and multi-objective cavitating propeller optimization: An application to a high-speed craft. Applied Ocean Research, 2017, 64, 31-57.	4.1	38
40	Two medium size cavitation tunnel hydro-acoustic benchmark experiment comparisons as part of a round robin test campaign. Ocean Engineering, 2017, 138, 179-207.	4.3	23
41	An extensive analysis of numerical ship self-propulsion prediction via a coupled BEM/RANS approach. Applied Ocean Research, 2017, 66, 55-78.	4.1	50
42	Experimental investigation of pressure pulses and radiated noise for two alternative designs of the propeller of a high-speed craft. Ocean Engineering, 2017, 132, 45-69.	4.3	12
43	Design of ducted propeller nozzles through a RANSE-based optimization approach. Ocean Engineering, 2017, 145, 444-463.	4.3	40
44	Analysis of the asymmetric behavior of propellerâ€“rudder system of twin screw ships by CFD. Ocean Engineering, 2017, 143, 269-281.	4.3	36
45	Parametric Analysis of Ship Noise Spectra. IEEE Journal of Oceanic Engineering, 2017, 42, 424-438.	3.8	13
46	Towards Posidonia Meadows Detection, Mapping and Automatic recognition using Unmanned Marine Vehicles. IFAC-PapersOnLine, 2017, 50, 12386-12391.	0.9	9
47	Ship propeller side effects: pressure pulses and radiated noise. Noise Mapping, 2016, 3, .	1.8	0
48	Direct scantling assessment of propeller blades. Applied Ocean Research, 2016, 59, 589-605.	4.1	3
49	Propeller underwater radiated noise: A comparison between model scale measurements in two different facilities and full scale measurements. Applied Ocean Research, 2016, 56, 48-66.	4.1	26
50	Cavitation tunnel acoustic characterisation and application to model propeller radiated noise measurements at different functioning conditions. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2016, 230, 250-266.	0.5	7
51	Assessment of different methods for the prediction of marine propellers induced pressures. , 2016, , 269-278.		1
52	Model scale investigation of the effect of different speed reduction strategies on cavitating propeller radiated noise. , 2015, , .		0
53	Method for estimating parameters of practical ship manoeuvring models based on the combination of RANSE computations and System Identification. Applied Ocean Research, 2015, 52, 274-294.	4.1	23
54	An improved wake description by higher order velocity statistical moments for single screw vessel. Ocean Engineering, 2015, 108, 181-190.	4.3	14

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55	An Investigation on the Discrepancies Between RANSE and BEM Approaches for the Prediction of Marine Propeller Unsteady Performances in Strongly Non-Homogeneous Wakes. , 2014, , .		9
56	A study on the numerical prediction of propellers cavitating tip vortex. Ocean Engineering, 2014, 92, 137-161.	4.3	89
57	Numerical modelling of propulsion, control and ship motions in 6 degrees of freedom. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2014, 228, 373-397.	0.5	13
58	Fatigue Strength Assessment of Propellers by Means of Weakly Coupled CFD and FEM Analyses. , 2014, , .		2
59	Analysis of twin screw ships' asymmetric propeller behaviour by means of free running model tests. Ocean Engineering, 2013, 68, 47-64.	4.3	59
60	2011 Best Paper Award. Ships and Offshore Structures, 2012, 7, 1-1.	1.9	0
61	EFD and CFD Design and Analysis of a Propeller in Decelerating Duct. International Journal of Rotating Machinery, 2012, 2012, 1-15.	0.8	21
62	EFD and CFD Characterization of a CLT Propeller. International Journal of Rotating Machinery, 2012, 2012, 1-22.	0.8	33
63	Guidance of Unmanned Surface Vehicles: Experiments in Vehicle Following. IEEE Robotics and Automation Magazine, 2012, 19, 92-102.	2.0	60
64	Aspects of twin screw ships semi-empirical maneuvering models. Ocean Engineering, 2012, 48, 69-80.	4.3	19
65	CPP propeller cavitation and noise optimization at different pitches with panel code and validation by cavitation tunnel measurements. Ocean Engineering, 2012, 53, 177-195.	4.3	63
66	Numerical and Experimental Analysis of a CLT Propeller Cavitation Behavior. , 2012, , .		4
67	Comparison of experimental and numerical sloshing loads in partially filled tanks. Ships and Offshore Structures, 2011, 6, 15-43.	1.9	34
68	Investigation of Twin-Screw Naval Ships Maneuverability Behavior. Journal of Ship Research, 2011, 55, 221-248.	1.1	16
69	Investigation of Twin-Screw Naval Ships Maneuverability Behavior. Journal of Ship Research, 2011, 55, 221-248.	1.1	10
70	Design and analysis of counter-rotating propellers-comparison of numerical and experimental results. Journal of Hydrodynamics, 2010, 22, 553-559.	3.2	8
71	Simulation of the Dynamic Behaviour of a Codlag Propulsion Plant. , 2010, , .		7
72	Pathâ€following algorithms and experiments for an unmanned surface vehicle. Journal of Field Robotics, 2009, 26, 669-688.	6.0	109

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73	Evaluation of slamming loads using smoothed particle hydrodynamics and Reynolds-averaged Navier–Stokes methods. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2009, 223, 17-32.	0.5	1
74	Basic navigation, guidance and control of an Unmanned Surface Vehicle. Autonomous Robots, 2008, 25, 349-365.	4.8	194
75	Comparison of experimental and numerical loads on an impacting bow section. Ships and Offshore Structures, 2008, 3, 305-324.	1.9	21
76	A Practical Method for the Prediction of Planing Craft Motions in Regular and Irregular Waves. , 2008, , .		14